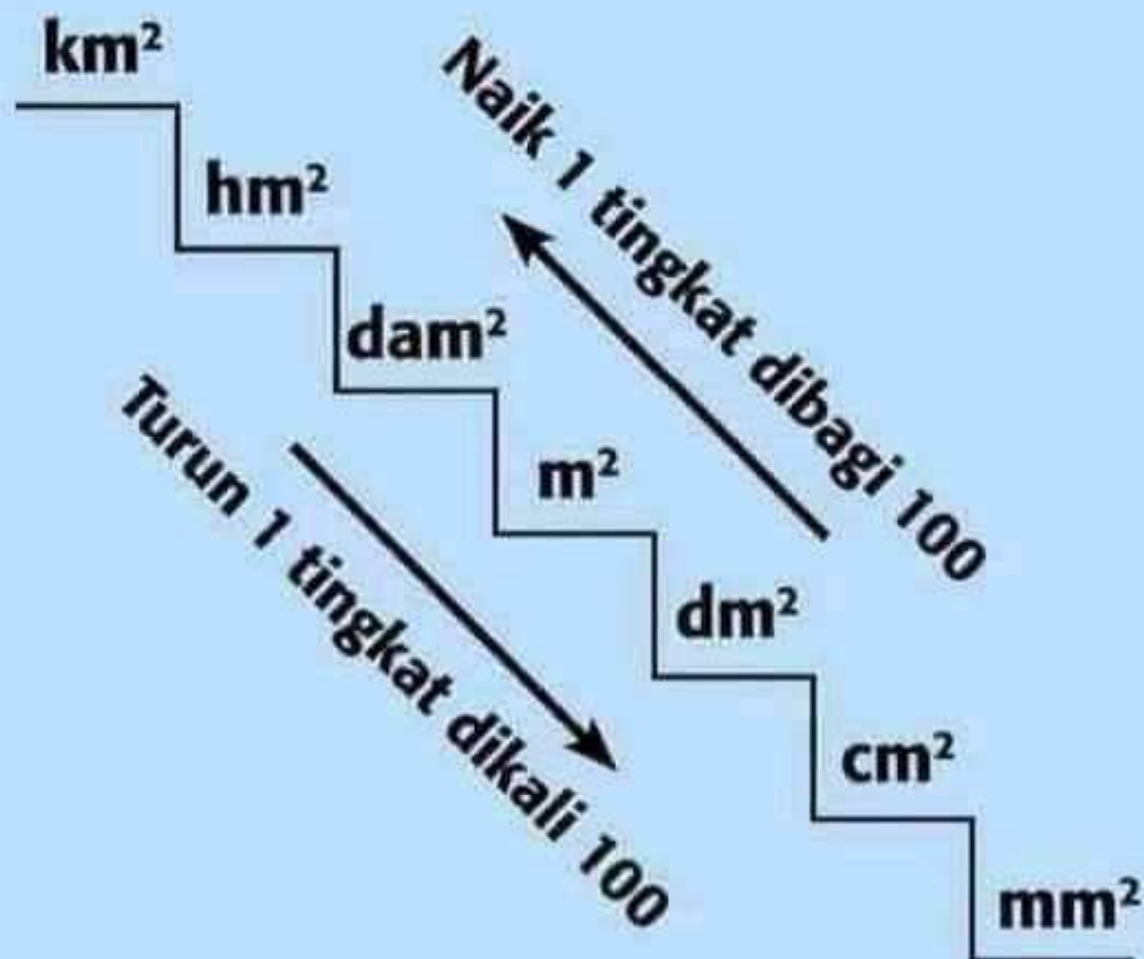


Satuan Ukuran Luas



Ukuran satuan luas lainnya:

1 are = 1 dam^2

1 are = 100 m^2

1 hektare = 1 ha = 1 hm^2

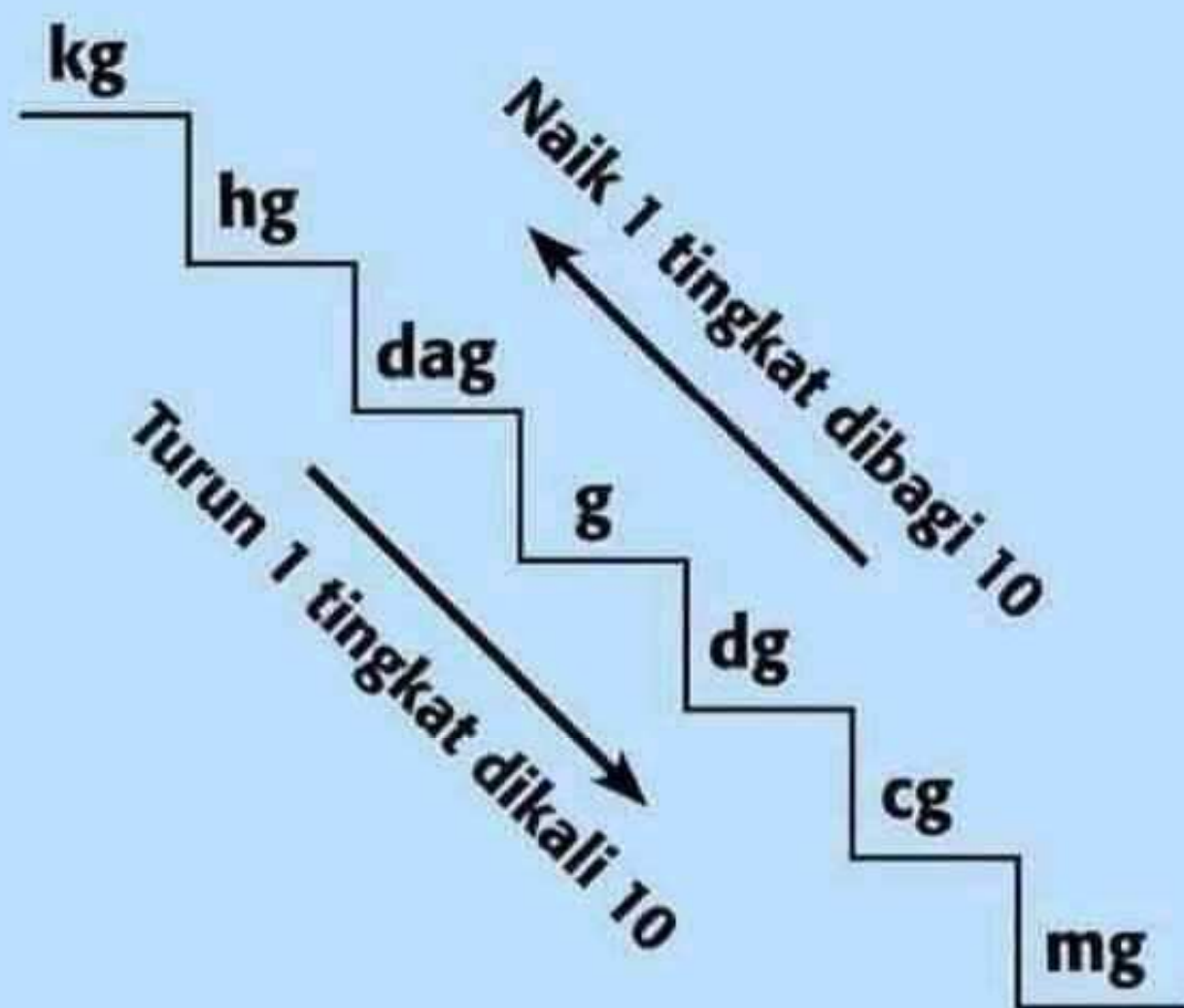
1 hektare = 1 ha = 100 are

1 hektare = 1 ha = 10.000 m^2

Satuan Ukuran Waktu

1 jam	= 60 menit
1 menit	= 60 detik
1 jam	= 3.600 detik
1 hari	= 24 jam
1 minggu	= 7 hari
1 bulan	= 30 hari
1 triwulan	= 3 bulan
1 caturwulan	= 4 bulan
1 semester	= 6 bulan
1 tahun	= 12 bulan
1 tahun	= 52 minggu
1 tahun	= 365 hari
1 lustrum	= 5 tahun
1 windu	= 8 tahun
1 dasawarsa	= 10 tahun
1 abad	= 100 tahun
1 milenium	= 1.000 tahun

Satuan Ukuran Berat



Ukuran satuan berat lainnya:

1 ton = 1.000 kg

1 ton = 10 kwintal

1 kwintal = 100 kg

1 kg = 10 ons

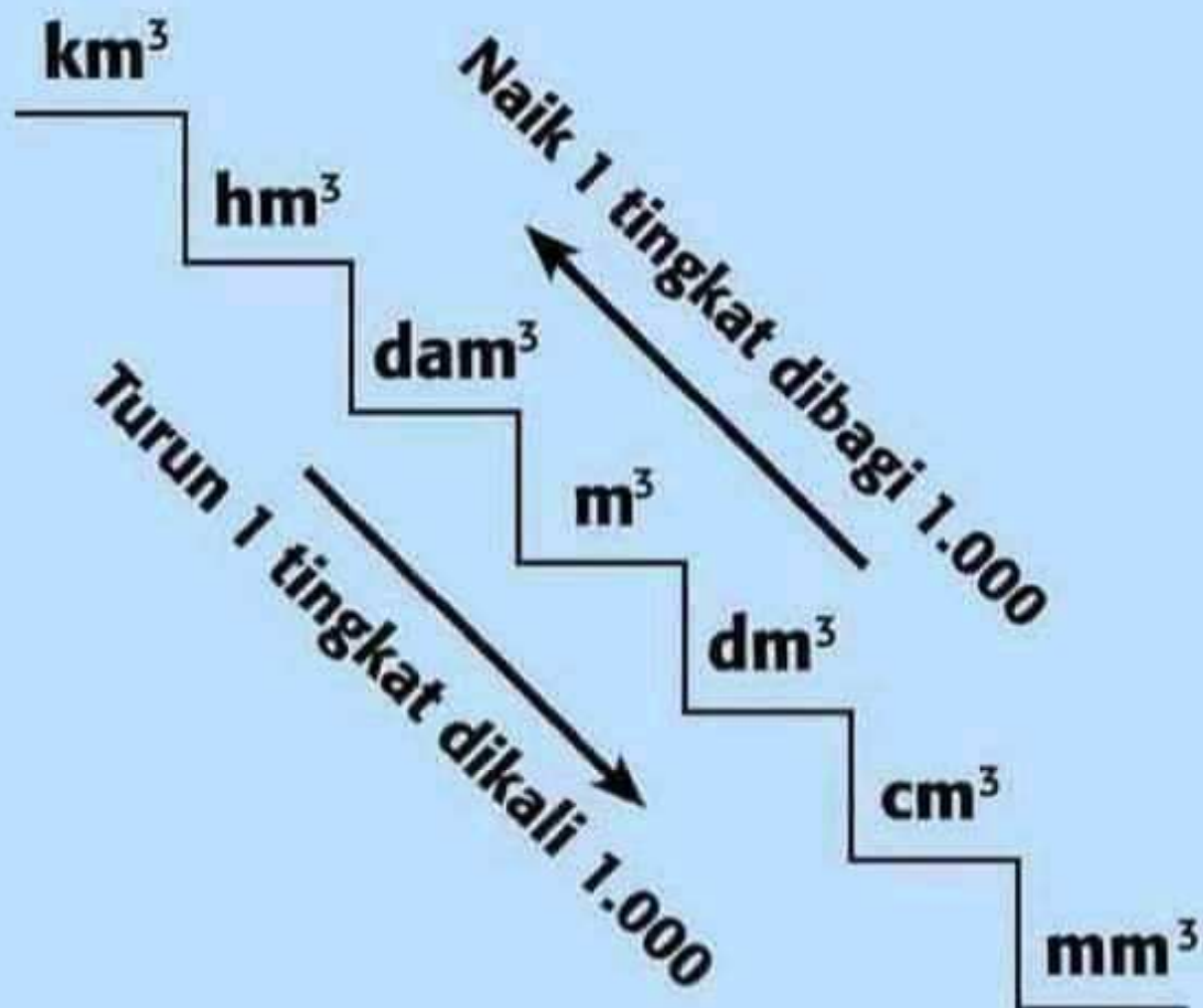
1 kg = 2 pon

1 pon = 5 ons

1 pon = 500 g

1 ons = 1 hg = 100 g

Satuan Ukuran Volume



Ukuran satuan volume lainnya:

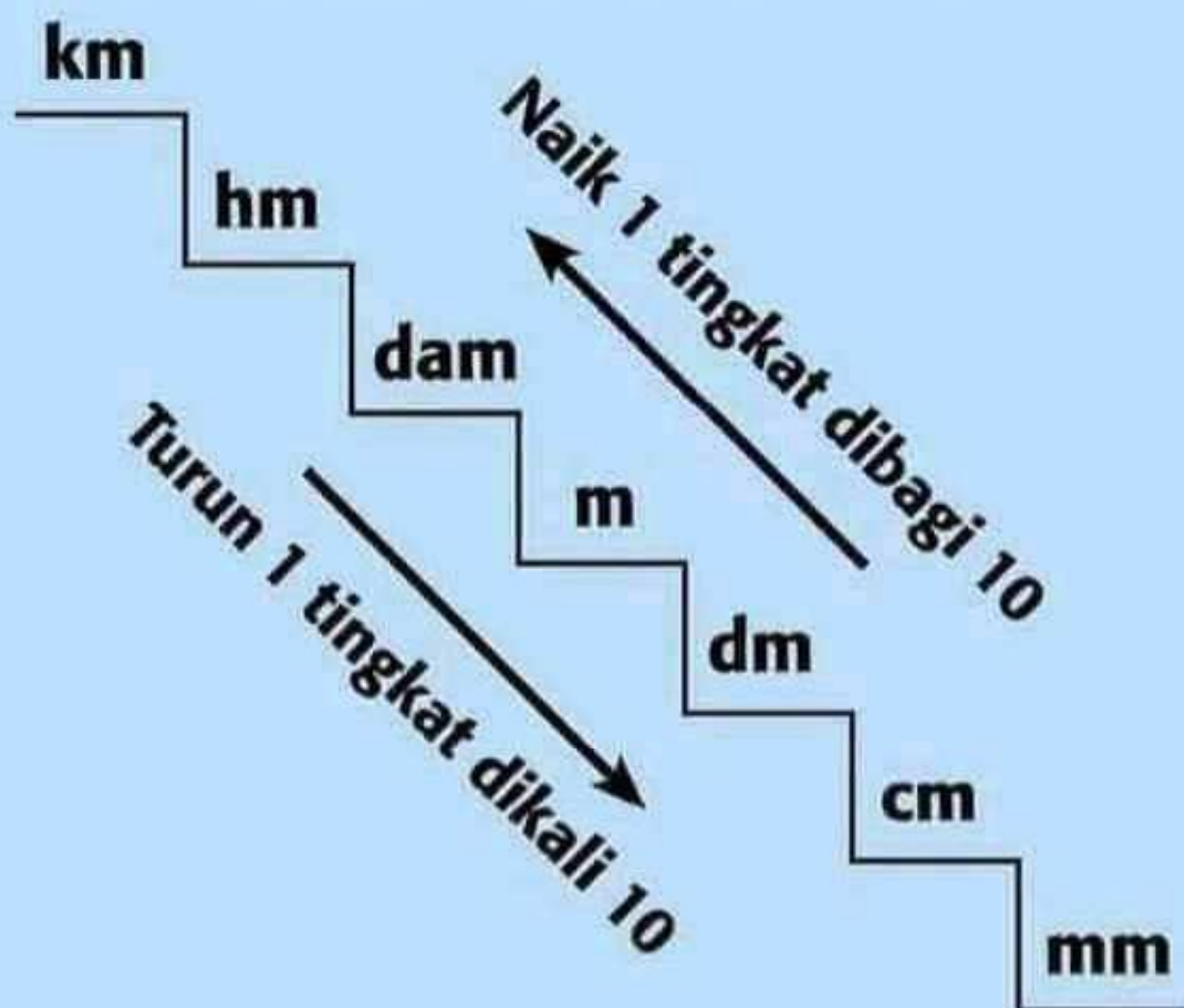
1 liter = 1 dm^3

1 ml = 1 cm^3

1 cc = 1 cm^3

1 liter = 1.000 ml = 1.000 cc = 1.000 cm^3

Satuan Ukuran Panjang



Ukuran satuan panjang lainnya:

1 inci = 2,45 cm

1 kaki = 30,5 cm

1 yard = 91,4 cm

1 mil (darat) = 1,609 km

1 mil (laut) = 1,852 km

$1^2 = 1$	$\sqrt{1} = 1$	$16^2 = 256$	$\sqrt{256} = 16$
$2^2 = 4$	$\sqrt{4} = 2$	$17^2 = 289$	$\sqrt{289} = 17$
$3^2 = 9$	$\sqrt{9} = 3$	$18^2 = 324$	$\sqrt{324} = 18$
$4^2 = 16$	$\sqrt{16} = 4$	$19^2 = 361$	$\sqrt{361} = 19$
$5^2 = 25$	$\sqrt{25} = 5$	$20^2 = 400$	$\sqrt{400} = 20$
$6^2 = 36$	$\sqrt{36} = 6$	$21^2 = 441$	$\sqrt{441} = 21$
$7^2 = 49$	$\sqrt{49} = 7$	$22^2 = 484$	$\sqrt{484} = 22$
$8^2 = 64$	$\sqrt{64} = 8$	$23^2 = 529$	$\sqrt{529} = 23$
$9^2 = 81$	$\sqrt{81} = 9$	$24^2 = 576$	$\sqrt{576} = 24$
$10^2 = 100$	$\sqrt{100} = 10$	$25^2 = 625$	$\sqrt{625} = 25$
$11^2 = 121$	$\sqrt{121} = 11$	$26^2 = 676$	$\sqrt{676} = 26$
$12^2 = 144$	$\sqrt{144} = 12$	$27^2 = 729$	$\sqrt{729} = 27$
$13^2 = 169$	$\sqrt{169} = 13$	$28^2 = 784$	$\sqrt{784} = 28$
$14^2 = 196$	$\sqrt{196} = 14$	$29^2 = 841$	$\sqrt{841} = 29$
$15^2 = 225$	$\sqrt{225} = 15$	$30^2 = 900$	$\sqrt{900} = 30$

$1 \times 1 = 1$

$1 \times 2 = 2$

$1 \times 3 = 3$

$1 \times 4 = 4$

$1 \times 5 = 5$

$1 \times 6 = 6$

$1 \times 7 = 7$

$1 \times 8 = 8$

$1 \times 9 = 9$

$1 \times 10 = 10$

$2 \times 1 = 2$

$2 \times 2 = 4$

$2 \times 3 = 6$

$2 \times 4 = 8$

$2 \times 5 = 10$

$2 \times 6 = 12$

$2 \times 7 = 14$

$2 \times 8 = 16$

$2 \times 9 = 18$

$2 \times 10 = 20$

$3 \times 1 = 3$

$3 \times 2 = 6$

$3 \times 3 = 9$

$3 \times 4 = 12$

$3 \times 5 = 15$

$3 \times 6 = 18$

$3 \times 7 = 21$

$3 \times 8 = 24$

$3 \times 9 = 27$

$3 \times 10 = 30$

$4 \times 1 = 4$

$4 \times 2 = 8$

$4 \times 3 = 12$

$4 \times 4 = 16$

$4 \times 5 = 20$

$4 \times 6 = 24$

$4 \times 7 = 28$

$4 \times 8 = 32$

$4 \times 9 = 36$

$4 \times 10 = 40$

$5 \times 1 = 5$

$5 \times 2 = 10$

$5 \times 3 = 15$

$5 \times 4 = 20$

$5 \times 5 = 25$

$5 \times 6 = 30$

$5 \times 7 = 35$

$5 \times 8 = 40$

$5 \times 9 = 45$

$5 \times 10 = 50$

$6 \times 1 = 6$

$6 \times 2 = 12$

$6 \times 3 = 18$

$6 \times 4 = 24$

$6 \times 5 = 30$

$6 \times 6 = 36$

$6 \times 7 = 42$

$6 \times 8 = 48$

$6 \times 9 = 54$

$6 \times 10 = 60$

$7 \times 1 = 7$

$7 \times 2 = 14$

$7 \times 3 = 21$

$7 \times 4 = 28$

$7 \times 5 = 35$

$7 \times 6 = 42$

$7 \times 7 = 49$

$7 \times 8 = 56$

$7 \times 9 = 63$

$7 \times 10 = 70$

$8 \times 1 = 8$

$8 \times 2 = 16$

$8 \times 3 = 24$

$8 \times 4 = 32$

$8 \times 5 = 40$

$8 \times 6 = 48$

$8 \times 7 = 56$

$8 \times 8 = 64$

$8 \times 9 = 72$

$8 \times 10 = 80$

$9 \times 1 = 9$

$9 \times 2 = 18$

$9 \times 3 = 27$

$9 \times 4 = 36$

$9 \times 5 = 45$

$9 \times 6 = 54$

$9 \times 7 = 63$

$9 \times 8 = 72$

$9 \times 9 = 81$

$9 \times 10 = 90$

$10 \times 1 = 10$

$10 \times 2 = 20$

$10 \times 3 = 30$

$10 \times 4 = 40$

$10 \times 5 = 50$

$10 \times 6 = 60$

$10 \times 7 = 70$

$10 \times 8 = 80$

$10 \times 9 = 90$

$10 \times 10 = 100$

TABEL PEMBAGIAN

1 : 1 = 1	2 : 2 = 1	3 : 3 = 1	4 : 4 = 1	5 : 5 = 1
2 : 1 = 2	4 : 2 = 2	6 : 3 = 2	8 : 4 = 2	10 : 5 = 2
3 : 1 = 3	6 : 2 = 3	9 : 3 = 3	12 : 4 = 3	15 : 5 = 3
4 : 1 = 4	8 : 2 = 4	12 : 3 = 4	16 : 4 = 4	20 : 5 = 4
5 : 1 = 5	10 : 2 = 5	15 : 3 = 5	20 : 4 = 5	25 : 5 = 5
6 : 1 = 6	12 : 2 = 6	18 : 3 = 6	24 : 4 = 6	30 : 5 = 6
7 : 1 = 7	14 : 2 = 7	21 : 3 = 7	28 : 4 = 7	35 : 5 = 7
8 : 1 = 8	16 : 2 = 8	24 : 3 = 8	32 : 4 = 8	40 : 5 = 8
9 : 1 = 9	18 : 2 = 9	27 : 3 = 9	36 : 4 = 9	45 : 5 = 9
10 : 1 = 10	20 : 2 = 10	30 : 3 = 10	40 : 4 = 10	50 : 5 = 10

6 : 6 = 1	7 : 7 = 1	8 : 8 = 1	9 : 9 = 1	10 : 10 = 1
12 : 6 = 2	14 : 7 = 2	16 : 8 = 2	18 : 9 = 2	20 : 10 = 2
18 : 6 = 3	21 : 7 = 3	24 : 8 = 3	27 : 9 = 3	30 : 10 = 3
24 : 6 = 4	28 : 7 = 4	32 : 8 = 4	36 : 9 = 4	40 : 10 = 4
30 : 6 = 5	35 : 7 = 5	40 : 8 = 5	45 : 9 = 5	50 : 10 = 5
36 : 6 = 6	42 : 7 = 6	48 : 8 = 6	54 : 9 = 6	60 : 10 = 6
42 : 6 = 7	49 : 7 = 7	56 : 8 = 7	63 : 9 = 7	70 : 10 = 7
48 : 6 = 8	56 : 7 = 8	64 : 8 = 8	72 : 9 = 8	80 : 10 = 8
54 : 6 = 9	63 : 7 = 9	72 : 8 = 9	81 : 9 = 9	90 : 10 = 9
60 : 6 = 10	70 : 7 = 10	80 : 8 = 10	90 : 9 = 10	100 : 10 = 10

PECAHAN

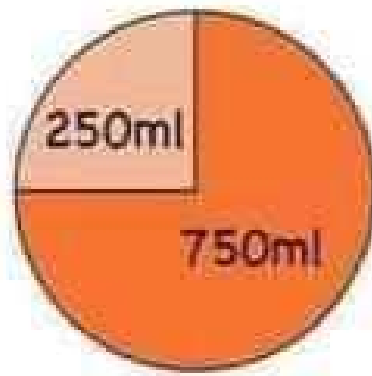
	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{8}$	$\frac{1}{10}$
Perpuluhan	1	0.75	0.5	0.25	0.2	0.125	0.1
Peratus	100%	75%	50%	25%	20%	12.5%	10%
Jam	60min	45min	30min	15min	12min		6min
Tahun	12bln	9bln	6bln	3bln			
Kilometer	1000m	750m	500m	250m	200m	125m	100m
Kilogram	1000g	750g	500g	250g	200g	125g	100g
Liter	1000m	750m	500m	250m	200m	125m	100m

Pecahan

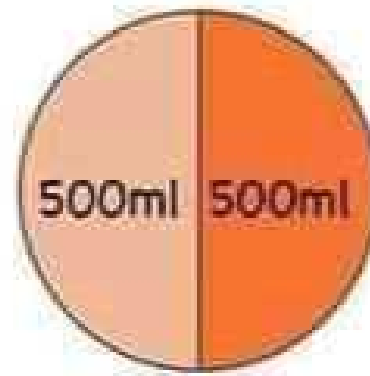
Liter (l)



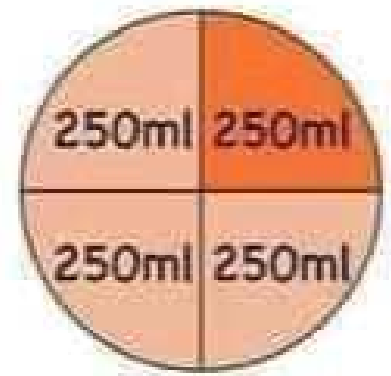
1



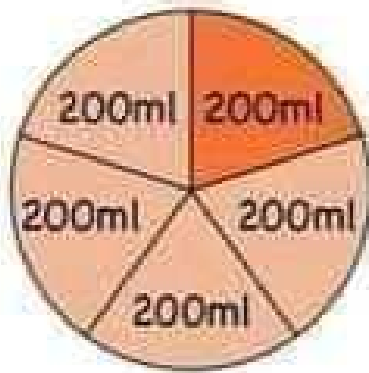
$\frac{3}{4}$



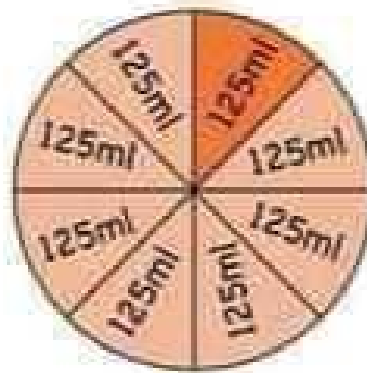
$\frac{1}{2}$



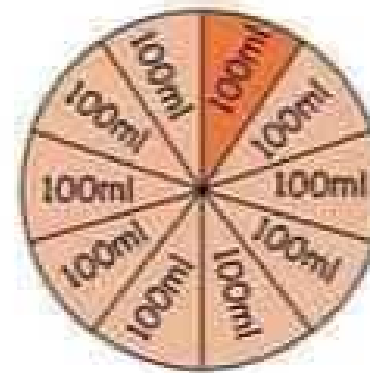
$\frac{1}{4}$



$\frac{1}{5}$



$\frac{1}{8}$



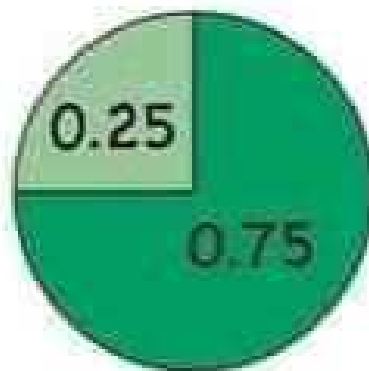
$\frac{1}{10}$

Pecahan

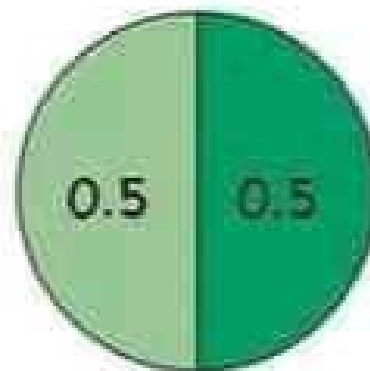
Perpuluhan



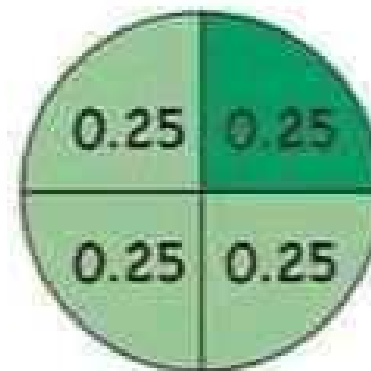
1



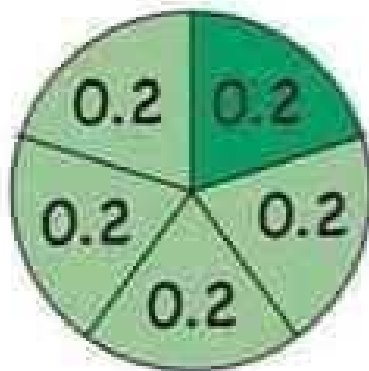
$\frac{3}{4}$



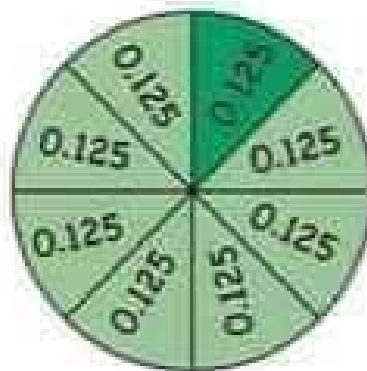
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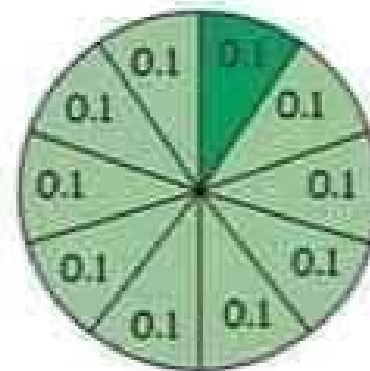
$\frac{1}{4}$



$\frac{1}{5}$



$\frac{1}{8}$



$\frac{1}{10}$

Pecahan

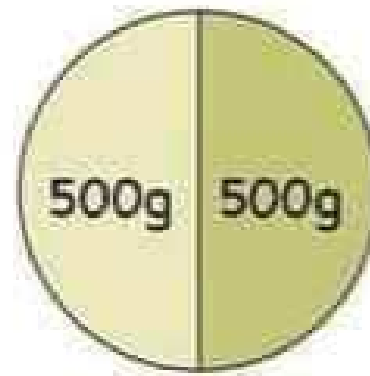
Kilogram (kg)



1



$\frac{3}{4}$



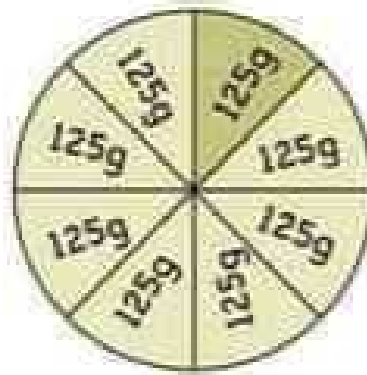
$\frac{1}{2}$



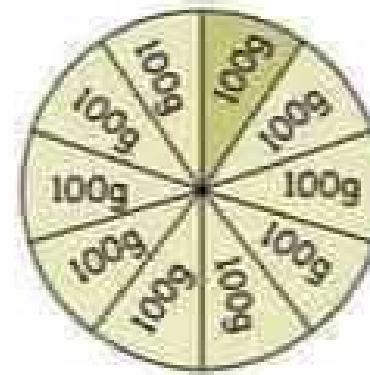
$\frac{1}{4}$



$\frac{1}{5}$



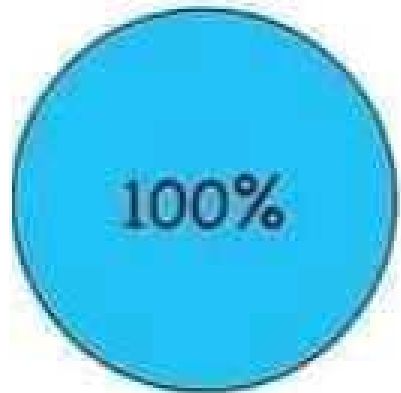
$\frac{1}{8}$



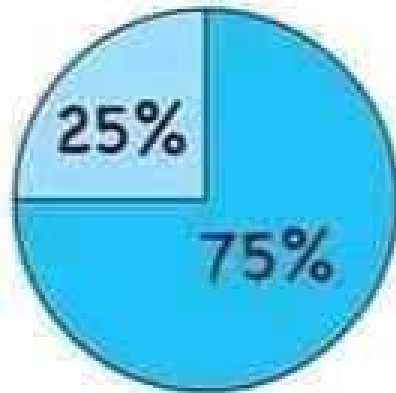
$\frac{1}{10}$

Pecahan

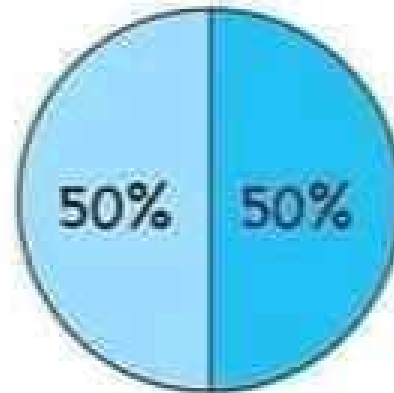
Peratus (%)



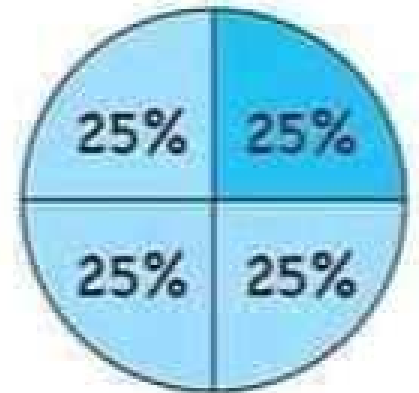
1



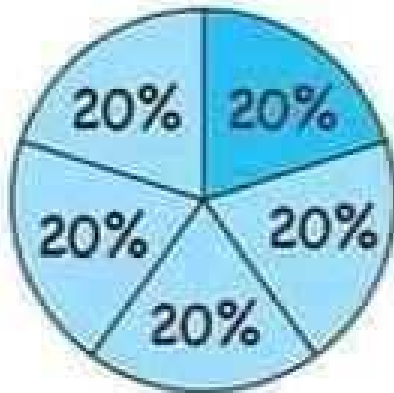
$\frac{3}{4}$



$\frac{1}{2}$



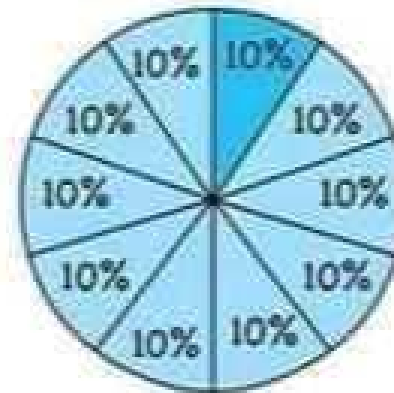
$\frac{1}{4}$



$\frac{1}{5}$



$\frac{1}{8}$



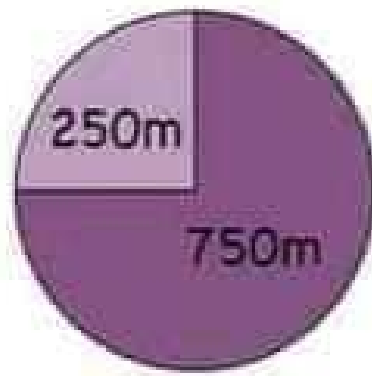
$\frac{1}{10}$

Pecahan

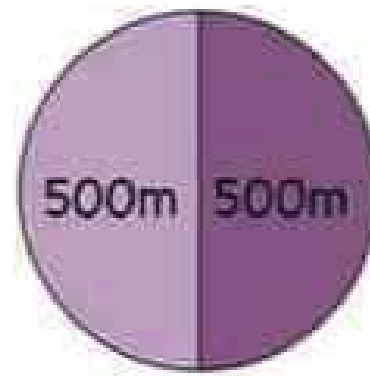
Kilometer (km)



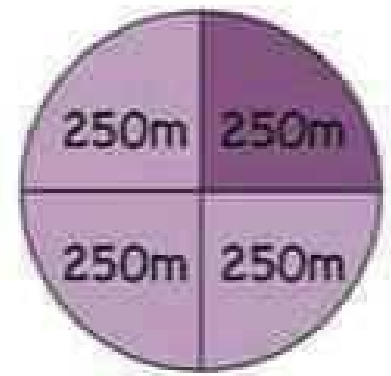
1



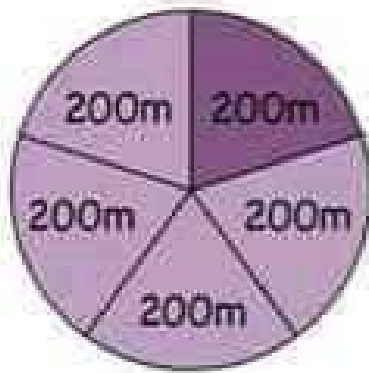
$\frac{3}{4}$



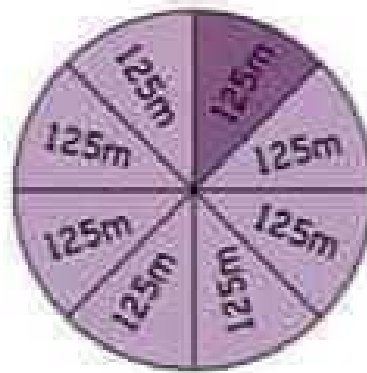
$\frac{1}{2}$



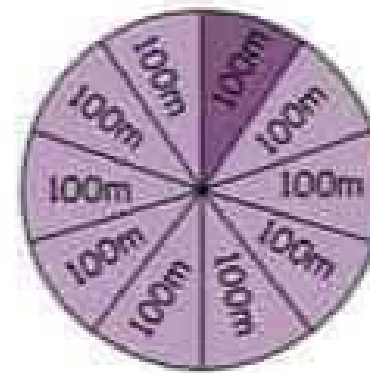
$\frac{1}{4}$



$\frac{1}{5}$



$\frac{1}{8}$



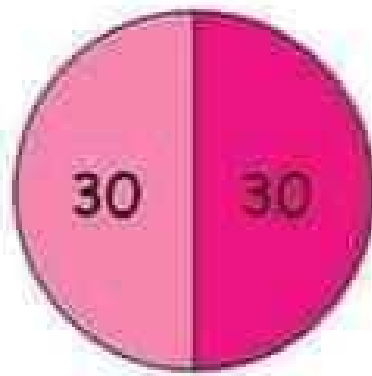
$\frac{1}{10}$

Pecahan

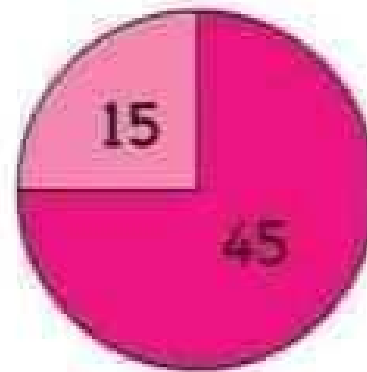
Jam



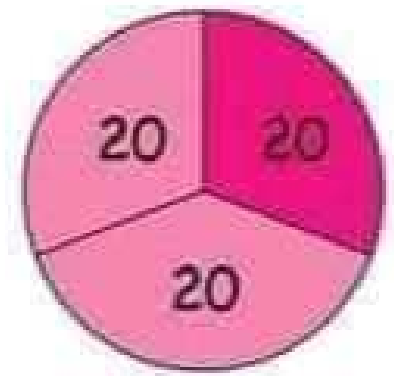
1 jam



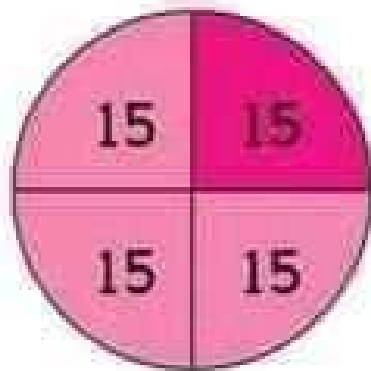
$\frac{1}{2}$ jam



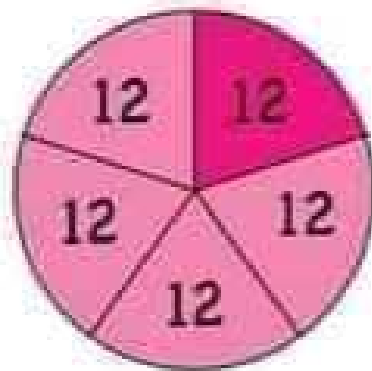
$\frac{3}{4}$ jam



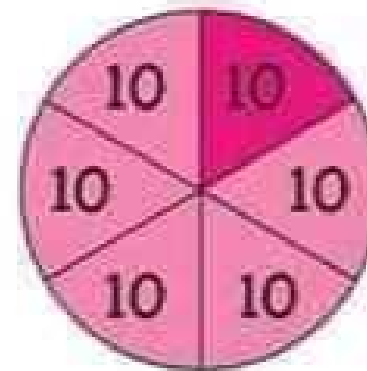
$\frac{1}{3}$ jam



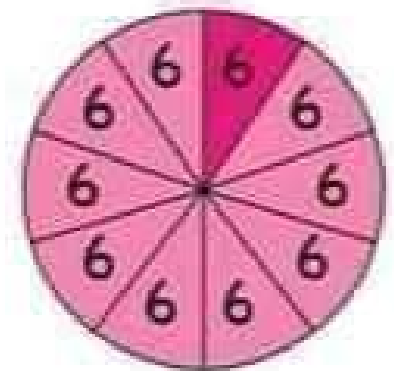
$\frac{1}{4}$ jam



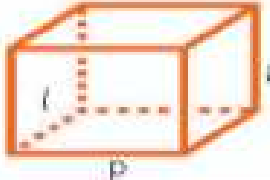
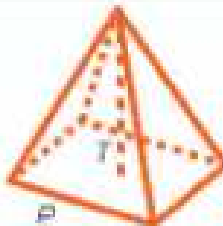
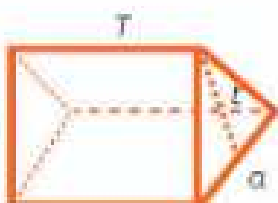
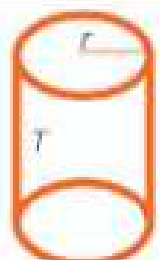
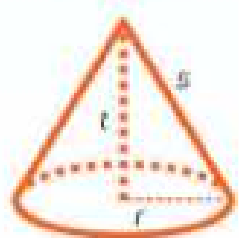
$\frac{1}{5}$ jam



$\frac{1}{6}$ jam

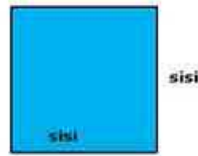


$\frac{1}{10}$ jam

NAMA BANGUN	RUMUS LUAS	RUMUS VOLUME (ISI)
KUBUS 	$6 \times \text{Rusuk} \times \text{Rusuk}$ $6 R^2$	$\text{Rusuk} \times \text{Rusuk} \times \text{Rusuk}$ R^3
BALOK 	$(2 \times p \times l) + (2 \times p \times t) + (2 \times l \times t)$ $2pl + 2pt + 2lt$	$\text{Luas alas} \times \text{Tinggi}$ $p \times l \times t$ Plt
LIMAS SEGIEMPAT 	$\text{Jumlahkan Luas ke-5 Sisinya}$ $LS_1 + LS_2 + LS_3 + LS_4 + LS_5$	$\frac{1}{3} \times \text{Luas alas} \times \text{Tinggi}$ $\frac{La \times T}{3}$ $\frac{1}{3} La T$
PRISMA SEGITIGA 	$LS = \text{Keliling Segitiga} \times \text{Tinggi Prisma}$ $LS = (S_1 + S_2 + S_3) \times T$ $Lp = \text{Kel Segitiga} \times T \text{ Prisma} + 2 \text{ Luas Segitiga}$ $LS = (S_1 + S_2 + S_3) \times T + at$	$\text{Luas alas} \times \text{Tinggi}$ $\frac{1}{2} \times a \times t \times T$ $\frac{1}{2} atT$
LIMAS SEGITIGA 	$\text{Jumlahkan Luas ke-4 Sisinya}$ $LS_1 + LS_2 + LS_3 + LS_4$	$\frac{1}{3} \times \text{Luas alas} \times \text{Tinggi}$ $\frac{\frac{1}{2} \times a \times t \times T}{3}$ $\frac{1}{6} atT$
SELINDER (TABUNG) 	Luas Selimut $2 \pi r T$ Luas Permukaan $2 \pi r T + 2 \pi r^2$	$\text{Luas alas} \times \text{Tinggi}$ $\pi r^2 T$
KERUCUT 	Luas Selimut $\pi r s$ Luas Permukaan $\pi r s + \pi r^2$	$\frac{1}{3} \times \text{Luas alas} \times \text{Tinggi}$ $\frac{1}{3} \pi r^2 T$
BOLA 	$\text{Luas Bola} = \text{Luas 4 lingkaran}$ $4 \pi r^2$	$\frac{4}{3} \pi r^3$

Rumus Keliling dan Luas Bangun Datar

1. Persegi



$$K = 4 \times \text{sisi}$$

$$L = \text{sisi} \times \text{sisi}$$

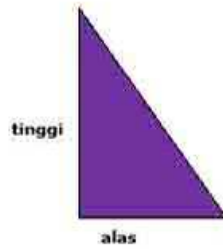
2. Persegi Panjang



$$K = 2 \times (\text{panjang} + \text{lebar})$$

$$L = \text{panjang} \times \text{lebar}$$

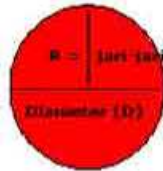
3. Segitiga



$$K = \text{sisi 1} + \text{sisi 2} + \text{sisi 3}$$

$$L = \frac{\text{alas} \times \text{tinggi}}{2}$$

4. Lingkaran

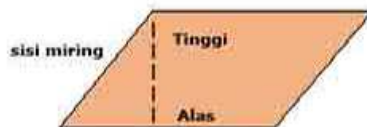


$$K = 2 \times \pi \times r / \pi \times d$$

$$L = \pi \times r \times r$$

$$\pi = \frac{22}{7} / 3,14$$

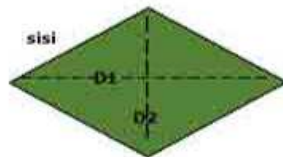
5. Jajaran Genjang



$$K = 2 \times (\text{alas} + \text{sisi miring})$$

$$L = \text{alas} \times \text{tinggi}$$

6. Belah Ketupat



$$K = 4 \times \text{sisi}$$

$$L = \frac{d1 \times d2}{2}$$

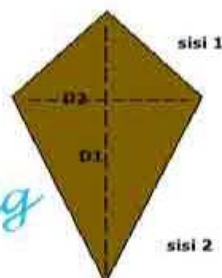
7. Trapesium



$$K = \text{sisi atas} + \text{sisi bawah} + \text{sisi miring} + \text{tinggi}$$

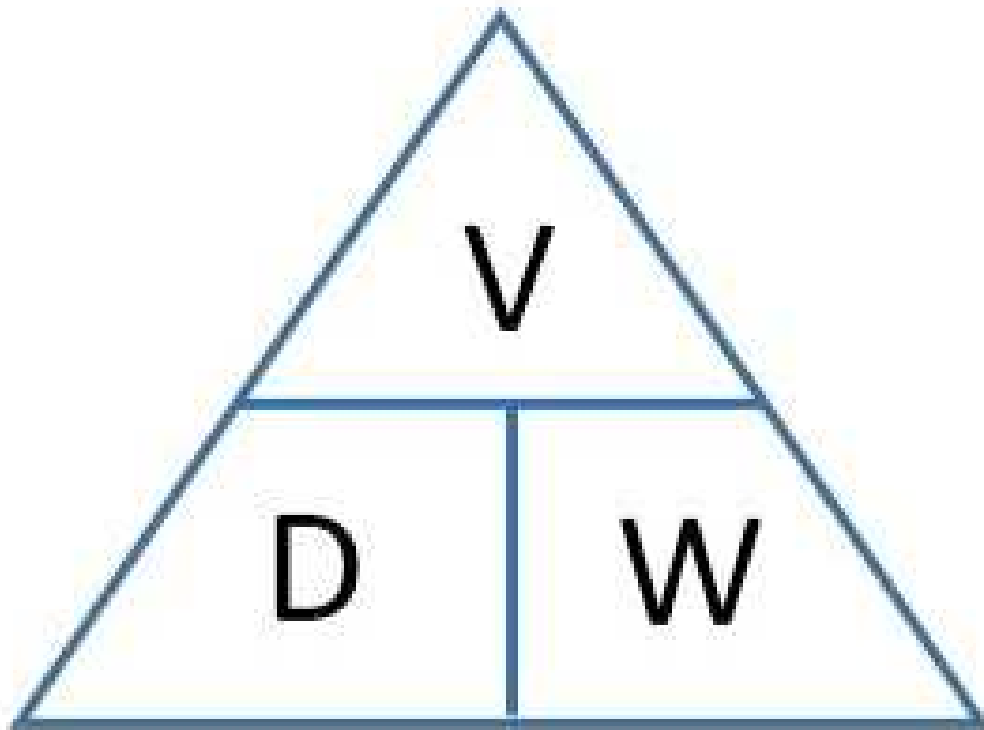
$$L = \frac{(\text{sisi atas} + \text{sisi bawah}) \times t}{2}$$

8. Layang-layang



$$K = 2 \times (\text{sisi 1} + \text{sisi 2})$$

$$L = \frac{d1 \times d2}{2}$$



Keterangan:

V = Volume (liter/dm³)

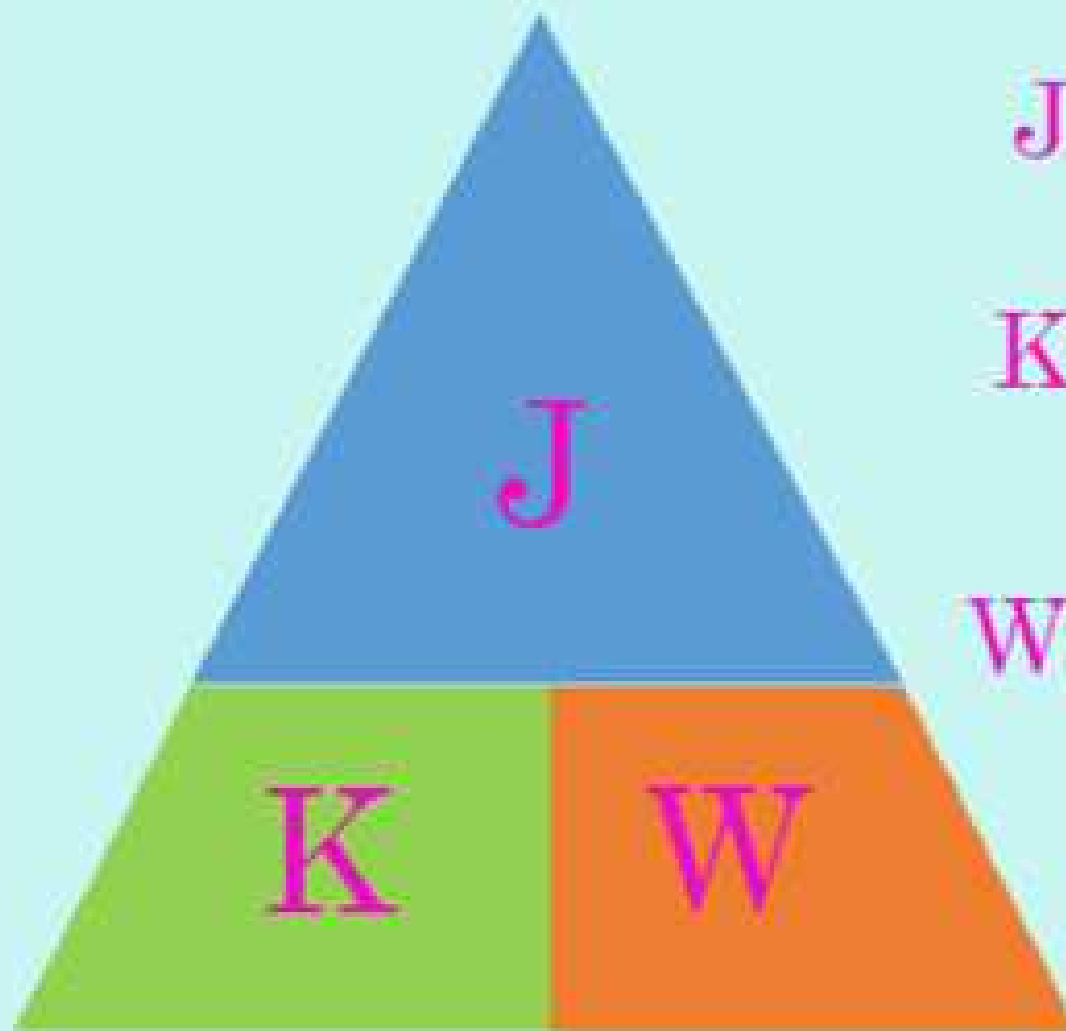
D = Debit (liter/jam atau dm³/jam)

W = Waktu (jam)

$$V = D \times W$$

$$D = \frac{V}{W}$$

$$W = \frac{V}{D}$$



$$J = K \times W$$

$$K = \frac{J}{W}$$

$$W = \frac{J}{K}$$

J = Jarak

K = Kecepatan

W = Waktu

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Faktor prima

$$60 = 2 \times 2 \times 3 \times 5 = 2^2 \times 3 \times 5$$

$$84 = 2 \times 2 \times 3 \times 7 = 2^2 \times 3 \times 7$$

F P B // Cari faktor yang sama & pangkat terendah

$$2^2 \times 3 = 4 \times 3 = 12$$

K P K // Tulis semua faktornya & pangkat tertinggi

$$2^2 \times 3 \times 5 \times 7 = 420$$